FURUNO

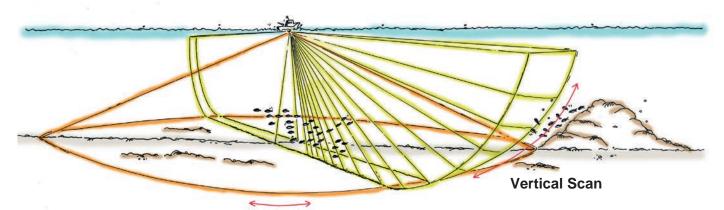
10.4" COLOR LCD DISPLAY SEARCHLIGHT SONAR Model CH-270

- High definition 10.4" color LCD display
- Instant selection of eight modes for efficient fishing and navigation
- User-friendly customizable menu
- Motion Sensor ensures clear images in rough seas (optional)
- Black Box configuration available
- Multi language menu; English,
 Spanish, Danish, Portuguese, French,
 Norwegian, Italian, Swedish, Thai,
 Chinese, Japanese and Vietnamese.
- Low-profile hull unit for space saving installation (select from 250 or 350 mm travel)
- Small 147 mm ID hull tube used

- Cross Section Scan for instant vertical observation
- Target Lock function automatically tracks targeted fish school
- Audible target detection frees operator from continuous watch (optional loudspeaker required)
- Intuitive depth and range readouts with two-axis index line



A remarkably compact hull unit that can scan all around the vessel in specified sectors, bearings and tilt angles



Sector or Full Circle Scan

The CH-270 is a sophisticated new searchlight sonar designed for small fishing vessels and pleasure craft. Individual fish, fish schools and underwater objects are displayed on a 10.4" color LCD. The echoes are displayed in 8 or 16 colors according to received echo strength; the strongest echoes are red and the weakest are blue. One echo can be displayed in white so that a specific echo level is highlighted. The background color is also selectable for optimal day and night viewability.

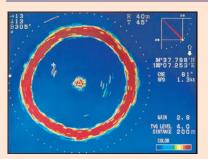
There are eight display modes: full circle scan, zoom, vertical scan, vertical sounder, combination of full or half circle with vertical scan, full circle with history, full circle with strata and full circle with VideoPlotter. In the vertical scan mode, you can view the vertical plane in any direction around the vessel. The CH-270 features a unique "Cross Section Scan" to view the vertical plane. When you find a specific echo in the full circle scan mode, just push the appropriate "CUSTOM MODE BUTTON" and the cross section scan window appears.

The CH-270 provides two modes for tracking a target echo: target lock mode and L/L mode. . The target lock mode permits automatic tracking of targeted fish schools within a predetermined search zone after it has been manually acquired. In the L/L mode, the beam is locked to a position chosen with the target marker (such as a fish shelter or reef). This mode can be enhanced with more accurate position input such as DGPS or WAAS.

The CH-270 consists of a 10.4" LCD display unit, transceiver unit and low-profile hull unit. This 3-unit configuration provides a space-saving installation. A Black Box configuration (without monitor) is also available. The hull unit will fit any boat where a 147 mm (6") hull tube is available. Previously installed CH-18 or 28's can be upgraded to a CH-270 without drydocking since the hull unit is the same.

The CH-270 has a new unique "Cross Section Scan" mode. You can instantly view the vertical plane in a specified direction by pressing the "CUSTOM MODE BUTTON". This mode is useful for evaluating the concentration and location of target fish schools or for navigational purposes.

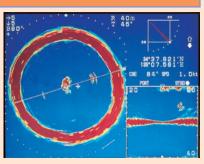
FULL CIRCLE SCAN



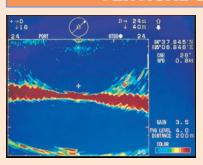
The full circle scan helps to detect fish schools at any bearing around the vessel.

Combination of FULL/HALF CIRCLE with VERTICAL SCAN

Combination of FULL CIRCLE with VERTICAL SCAN



VERTICAL SCAN

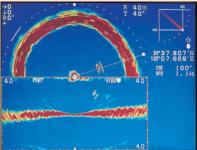


The vertical scan displays the bottom profile within a user-specified vertical plane. The cursor indicator shows range and transducer tilt.

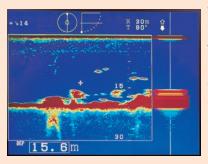
Combination of HALF CIRCLE with VERTICAL SCAN

One unique feature of this

sonar is the mode combining full and half circle scan with vertical scan.

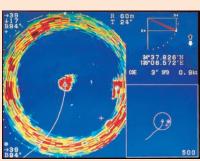


VERTICAL SOUNDER

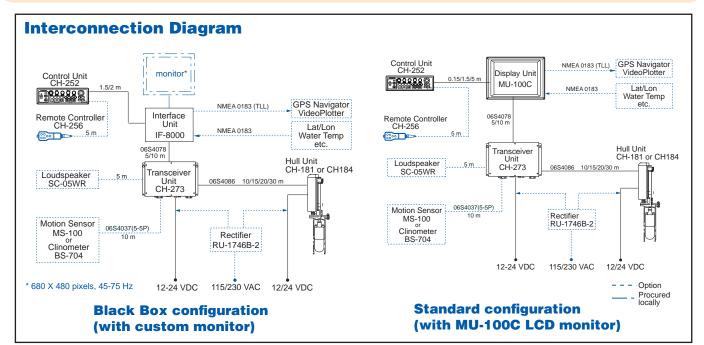


When fully retracted, the transducer tilted to 90 degrees can display fish schools and seabed straight down at high speeds.

FULL CIRCLE with VideoPlotter



The own ship track can be displayed when a GPS unit is attached. An unrivaled feature for purse seining and bottom trawling.



SPECIFICATIONS OF CH-270

Range scales and Time to train (the default setting at full circle scan mode)

Range		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Unit	Meters	10	20	40	60	80	100	120	160	200	250	300	400	500	600	800
	Feet	40	80	120	200	300	400	500	600	700	800	1000	1200	1500	2000	2500
	Fathoms	10	20	30	40	60	80	100	120	140	160	200	250	300	400	500
	P/B	10	20	30	40	60	80	100	120	140	160	200	250	300	400	600
Time to train full circle (s (Fast scan/Normal scan)) 11	11	11	11	11	11	11	13/14	14/17	16/21	18/25	22/33	26/41	30/49	38/65

Maximum scale depends on the display modes. 1600 m (full circle scan), 600 m (vertical scan).

Display Unit 10.4" TFT color LCD (VGA: 640 x 480 pixels) 2

3. Color 8 or 16 colors

4. Display Mode

(1) Full Circle scan (2) Zoom(x 1.5) (3) Vertical scan

(4) Vertical Sounder (5) Full/Half Circle and Vertical scan (6) Full Circle and History (7) Full Circle and Strata

(8) Full Circle and Video Plotter

5 **Audio monitor** 1000 Hz **TX Output Power** 0.8 kW 7. Frequency 180 kHz

8. Beamwidth 8° conical (at -3 dB)

9. **Transducer Control**

> 0° to -180° at 3° or 6° steps (in Vertical scan) Tilt:

> > +5° to -90° at 1° steps (in Full Circle scan)

Manual or automatic training at 6° or 12° Training sector:

steps in search sector 6° to 360°

Target Lock: By L/L, Echo position or manual 10. Interface (NMEA 0183 Ver 1.5, 2.0, IEC 61162-1)

Input: DBS, DBT, DPT, GGA, GLL, HDG, HDM, HDT,

MDA, MTW, RMA, RMC, VDR, VHW, VTG

Output: TLL

11. Power Supply

Transceiver Unit: 12-32 VDC: 4.7-1.8 A 12/24 VDC: 4.0/2.5 A Hull Unit:

(Max. 10/6 A)

English, Spanish, Danish, Portuguese, French 12. Language

IFC IPX5

Norwegian, Italian, Swedish, Thai, Japanese,

Chinese and Vietnamese.

EMC AND ENVIRONMENT

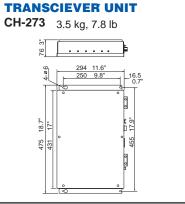
Temperature

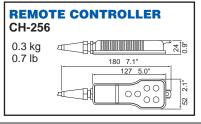
Display Unit, Transceiver Unit: -15°C to +55°C 0°C to +45°C **Hull Unit:**

Water resistance

Display Unit:

HULL UNIT CH-181 (Travel 350 mm) 37 kg, 81.6 lb CH-184 (Travel 250 mm) 35 kg, 77.2 lb Ø240 9.4" 23.4° 15.7° 594 400 350mm: 250mm: Мď 16.9 430 Ø146.6 **Travel** 5.8 ø280





EQUIPMENT LIST

Standard

1.	Display Unit MU-100C	1 unit
2.	Control Unit CH-252	1 unit
3.	Hull Unit CH-181 (travel 350 mm)	
	or CH-184 (travel 250 mm)	1 unit
4.	Transceiver Unit CH-273	1 unit
5.	Installation Materials and Spare Parts	1 set
6.	Interface Unit IF-8000 (BlackBox type only)	1 unit

Option

- Remote Controller CH-256 1
- 2. Rectifier RU-1746B-2
- 3. Loudspeaker SC-05WR, Horn
- Transducer Tank

Steel, 6" schedule 80 pipe: 1, 1.8, 3.5 m

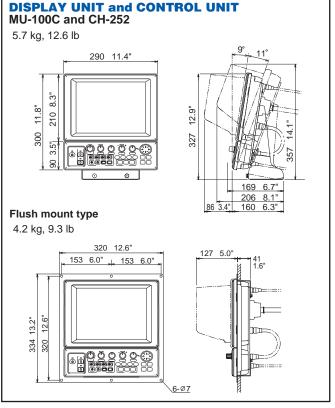
FRP, 147 mm ID: 1, 1.8 m

5. NMEA Cable

6P-6P: 5 m (MJ-A6SPF0012-050), 10 m (MJ-A6SPF0012-100) 6P-4P: 5 m (MJ-A6SPF0011-050), 10 m (MJ-A6SPF0011-100)

- Motion Sensor MS-100 or Clinometer BS-704
- Interface Unit IF-8000 7.

Beware of similar products



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE PLEASE READ MANUAL BEFORE USING THE UNIT

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